seminars

PHYSICS I - ELECTRONICS EXPERIMENTS COMMITTEE

Monday, January 20
14.30
Auditorium

Open Session :

1. Status report on experiment S131 by Busnello et al. (Geneva University) to study the production of strange bosons in the reactions $K^- p \rightarrow \overline{K^0}\, \pi^- p$ and $K^+ p \rightarrow K^0 \pi^+ p$.
2. Status report on experiment S134 by Astbury et al. (CERN-ETH-Technical University, Helsinki-Imperial College, London-Southampton University Collab.), to study helicity amplitudes for associated production $\pi^- p \rightarrow K^0\ \Lambda^0$.
3. New proposals for the Omega :
   - 3.1 K^+ interaction trigger experiment in Omega (CERN-EEC-74/54 by Birmingham-DESY-Glasgow Collab.), presented by I.D. Hughes;
   - 3.2 Proposal for an extension of the 'rare decays Omega experiment' in order to study high mass bosons ($2.0 < M < 3.4$ GeV), produced by pions, to a sensitivity of 100,000 ev/ μb (10^{-35} cm^2) (CERN/EEC-75/1, by Bari-Bonn-CERN-Liverpool-Milan-Vienna Collab.), presented by B. French;
   - 3.3 A proposal to study $\pi^- p \rightarrow (K\overline{K})^{\pm} \pi^{\mp} n$ using Omega (CERN/EEC-75/2 by Aachen-CERN-ETH-Haifa Collab.), presented by W. Beusch;
   - 3.4 A search for exotic mesons using Omega (CERN-Ecole Polytechnique-Orsay Collab.), presented by P. Sonderegger;
   - 3.5 Production of muon pairs in Omega (Birmingham-CERN-Ecole Polytechnique-Orsay-Rutherford Collab.), presented by D. Treille;
   - 3.6 Search for the associated production of charmed meson pairs in Omega, Letter of intent, presented by J.R. Hubbard.

Please note that in case the agenda cannot be carried out completely on Monday afternoon, the open session will continue on Tuesday at 9 a.m.; the closed session will then start immediately afterwards.

Tuesday, January 21
09.00
NP Conference Room

Closed Session

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CERN PARTICLE PHYSICS SEMINAR

Tuesday, January 21
16.30
Auditorium

"Experiments with a polarized proton beam and a polarized target" by A.D. Krisch / The University of Michigan, Ann Arbor

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CERN TRACK CHAMBER COMMITTEE

Tuesday, January 21
9.30
Council Chamber

1. Progress Report on Experiment T 112, 4.2 GeV/c $K^- p$ (R. Hemingway);
2. Further discussion on charmed particle search in the HBC 200. (A. Grant and R. Stroynowski);
3. Discussion on the Future Programme of the HBC/DBC 200.

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NP MEETING

Monday, January 27
11.00
Theory Conference Room
(Lab. 4, 3rd floor)

1. The CERN spin frozen target - by F. Udo;
2. Solid ^{3}He as polarized neutron target - by T. Niinikoski

CERN COLLOQUIUM

Thursday, January 23
16.30
Auditorium

"From the binary pulsar to the γ-rays bursts - a new frontier for quantum and classical relativistic field theories"
by R. Ruffini / The Institute for Advanced Study, Princeton
Abstract : The recent discovery of a binary pulsar by J. Taylor gives an unprecedented tool to test the classical effects predicted by the Einstein theory of General Relativity. The possibility of measuring perihelion precession, bending of light, the gravitational spin-orbit coupling and their major consequences for the pulsar theories are reviewed. Outstanding for their power and for their still unexplained origin are the γ-ray bursts discovered by I. Strong through the Vela Satellites. It is shown how an extension of the Sauter-Euler-Heisenberg treatment of the Klein paradox to the electromagnetic field of Kerr-Newman black holes gives a most promising theoretical background for the explanation of the origin of these γ-ray bursts.

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SPS EXPERIMENTS COMMITTEE

Tuesday, January 28
14.00
Auditorium

Open Session :

1. Proposal to Study Hadronic Reactions Leading to Multibody Final States with a Particle of Transverse Momentum up to 3 GeV/c at SPS Energies (MPI Munich; K.P. Pretzl; SPSC/75-1/P 37).

Wednesday, January 29
09.30
Room A+C+D

Closed Session

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TECHNICAL PRESENTATION

Friday, January 24
09.30 - 16.30
TC-L Conference Room
(Bldg. 17 - 1st floor)

WANG(USA/CH) are presenting at CERN their complete range of scientific and commercial mini-computers. For the first time, you have the opportunity to see a WANG 2200 System. It is a scientific oriented mini-computer with 4 K to 32 K bytes (octets) of main memory capacity; programmable in BASIC language, with CRT (Cathode Ray Tube) as well as a great number of peripherals such as fast and thermal printers, disk drives and floppy disks systems. The WANG 2200 System may also be interfaced to any measurement instruments through one of our standard interfaces and can also work as intelligent terminal linked to external main frame systems : IBM, CDC, UNIVAC, etc.

Languages : English, French, German.

Information : M. Diraison / FIN / 4585 .

enseignement

ENSEIGNEMENT GENERAL

Lundi 20 janvier
13.00 - 13.30
Amphithéâtre

Cours "Connaissance du CERN", par R. Carreras
Leçon 4 : "Les détecteurs".

Jeudi 23 janvier
13.00 - 13.30
Amphithéâtre

"Science pour Tous", par R. Carreras
Programme (pour détails, voir affiches) :

1. Vu, lu et entendu.
2. Question : Dans chaque goutte d'eau de mer il y a environ un demi-milliard d'atomes d'or. Pourquoi ne l'exploite-t-on pas?
3. Thème principal : "L'énigme des pigeons voyageurs".

- Le séminaire aura lieu le même jour, dès 17.35 dans la salle D;
- La séance de 13.00 est retransmise en direct à l'amphithéâtre des ISR.